	Application No.	Applicant(s)
Notice of Allowability	10/705,410	ARENBERG ET AL.
	Examiner	Art Unit
	Johnnie L Smith II	2881
The MAILING DATE of this communication app ars on the cover sh et with the correspond nc address All claims being allowable, PROSECUTION ON THE MERITS IS (OR REMAINS) CLOSED in this application. If not included herewith (or previously mailed), a Notice of Allowance (PTOL-85) or other appropriate communication will be mailed in due course. THIS NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT RIGHTS. This application is subject to withdrawal from issue at the initiative of the Office or upon petition by the applicant. See 37 CFR 1.313 and MPEP 1308.		
1. X This communication is responsive to application filed 11/10/03.		
2. The allowed claim(s) is/are <u>1-20</u> .		
3. The drawings filed on 10 November 2003 are accepted by the Examiner.		
 4. Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a) All b) Some* c) None of the: 1. Certified copies of the priority documents have been received. 2. Certified copies of the priority documents have been received in Application No 3. Copies of the certified copies of the priority documents have been received in this national stage application from the International Bureau (PCT Rule 17.2(a)). * Certified copies not received: 		
Applicant has THREE MONTHS FROM THE "MAILING DATE" of this communication to file a reply complying with the requirements noted below. Failure to timely comply will result in ABANDONMENT of this application. THIS THREE-MONTH PERIOD IS NOT EXTENDABLE.		
5. A SUBSTITUTE OATH OR DECLARATION must be submitted. Note the attached EXAMINER'S AMENDMENT or NOTICE OF INFORMAL PATENT APPLICATION (PTO-152) which gives reason(s) why the oath or declaration is deficient.		
 6. CORRECTED DRAWINGS (as "replacement sheets") must be submitted. (a) including changes required by the Notice of Draftsperson's Patent Drawing Review (PTO-948) attached 1) hereto or 2) to Paper No./Mail Date (b) including changes required by the attached Examiner's Amendment / Comment or in the Office action of Paper No./Mail Date Identifying indicia such as the application number (see 37 CFR 1.84(c)) should be written on the drawings in the front (not the back) of each sheet. Replacement sheet(s) should be labeled as such in the header according to 37 CFR 1.121(d). 		
7. DEPOSIT OF and/or INFORMATION about the deposit of BIOLOGICAL MATERIAL must be submitted. Note the attached Examiner's comment regarding REQUIREMENT FOR THE DEPOSIT OF BIOLOGICAL MATERIAL.		
 Attachm nt(s) 1. ☑ Notice of References Cited (PTO-892) 2. ☐ Notice of Draftperson's Patent Drawing Review (PTO-948) 3. ☐ Information Disclosure Statements (PTO-1449 or PTO/SB/O Paper No./Mail Date	6. Interview Summary Paper No./Mail Da 7. Examiner's Amenda	te
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DETAILED ACTION

Allowable Subject Matter

- 1. Claims 1-20 are allowed.
- 2. The following is an examiner's statement of reasons for allowance: the prior art searched and cited failed to teach or fairly suggest a collector optic assembly for collecting radiation, the said assembly having an elliptical meniscus machined from a single piece of silicon and being fused to the heat exchanger by a glass frit bonding process, the said meniscus including a front reflective layer and an inlet manifold and an outlet manifold machined from a single piece of silicon and being mounted to the heat exchanger, said outlet manifold including at least one outlet channel in fluid communication with the heat exchanger cooling channels in combination with the remaining elements of claims 1 or 8. Claims 2-7 and 9-15 are allowable because of their dependencies upon claims 1 or 8.
- 3. The prior art searched and cited also failed to teach or fairly suggest a method for assembling a collector optic for collecting radiation, the said method having steps of machining an elliptical meniscus from a single piece of silicon so that the meniscus has a front surface and a back surface; depositing a reflective outer layer on the front surface of the meniscus, and fusing the back surface of the

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meniscus to the heat exchanger by a glass frit bonding process in combination with the remaining elements of claim 16. Claims 17-20 are allowable because of their dependencies upon claim 16.

Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably accompany the issue fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for Allowance."

Conclusion

4. The prior art made of record and not relied upon is considered pertinent to applicant's disclosure. US patents; 6,738,452 (McGregor et al), 6,285,743 (Kondo et al), 5,209,291 (Taylor) and US patent publications; 2002/01415336 (Richardson, 2004/0086080 (Orsini et al). All of the cited US patents contain art similar to that being claimed by applicant, more specifically, EUV collectors and target sources.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Johnnie L Smith II whose telephone number is 571-272-2481. The examiner can normally be reached on Monday-Thursday 7-4 P.M. and Alternate Fridays.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, John R Lee can be reached on 571-272-2477. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

Johnnie L Smith II

Examiner

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Milleta Wills

NIKITA WELLS

PRIMARY EXAMINER 01/09/04